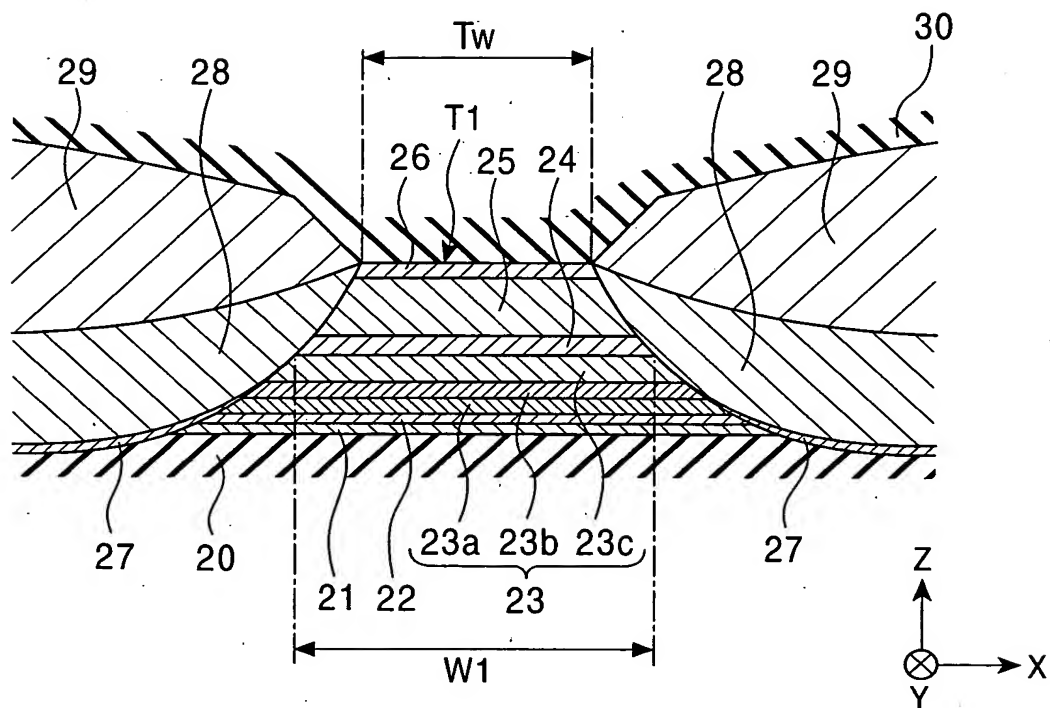


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FIG. 1



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FIG. 2

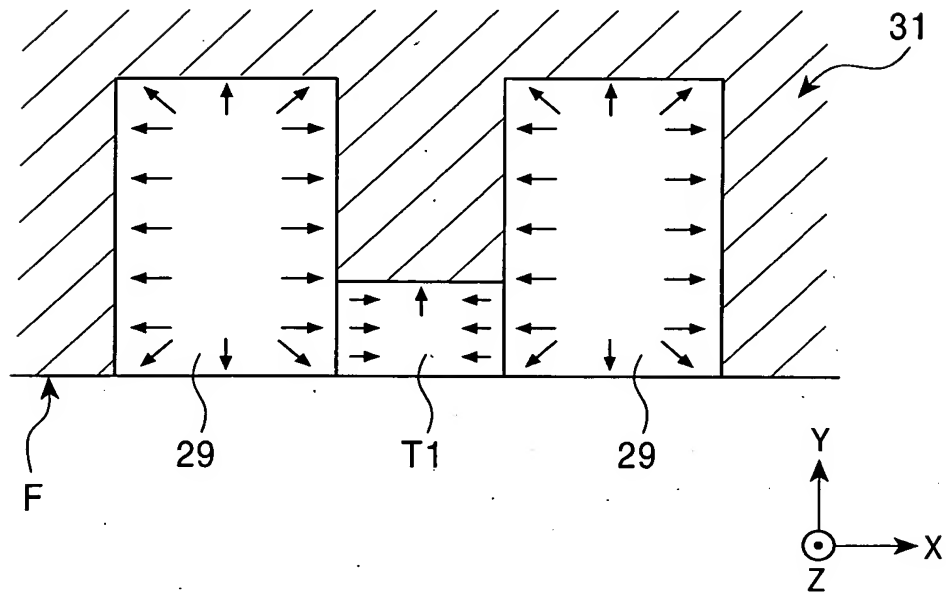
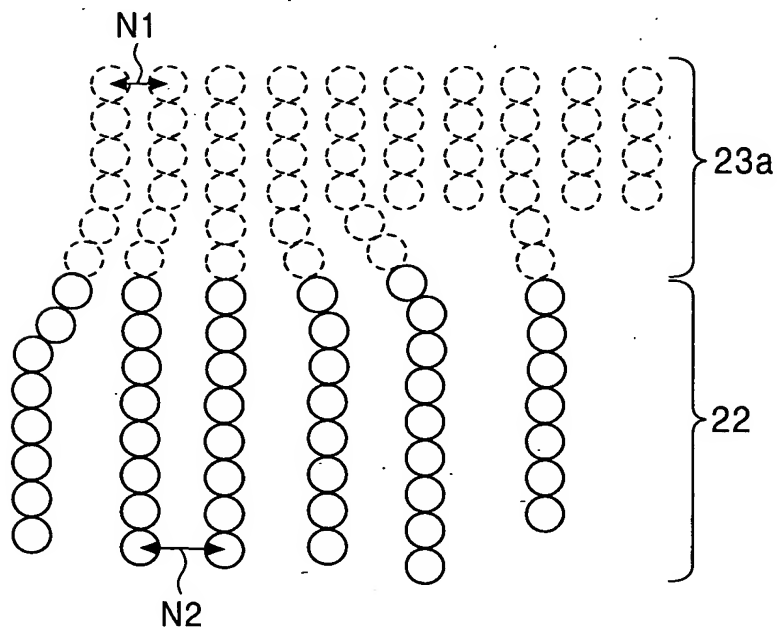


FIG. 3



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FIG. 4

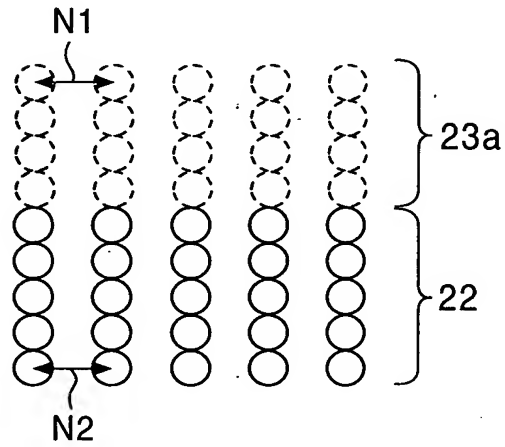
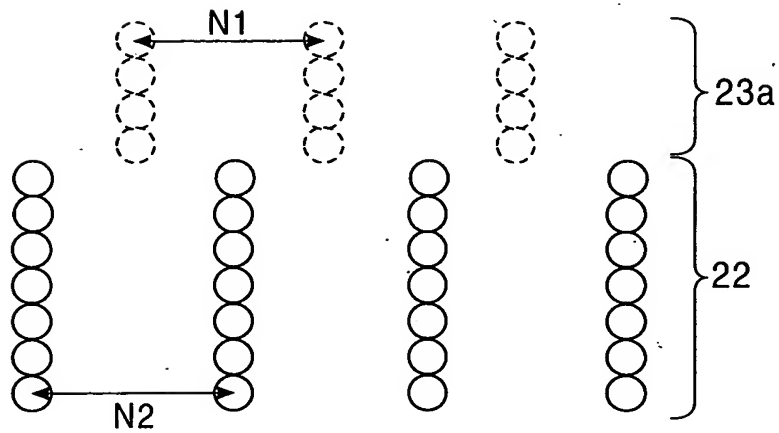


FIG. 5



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FIG. 6

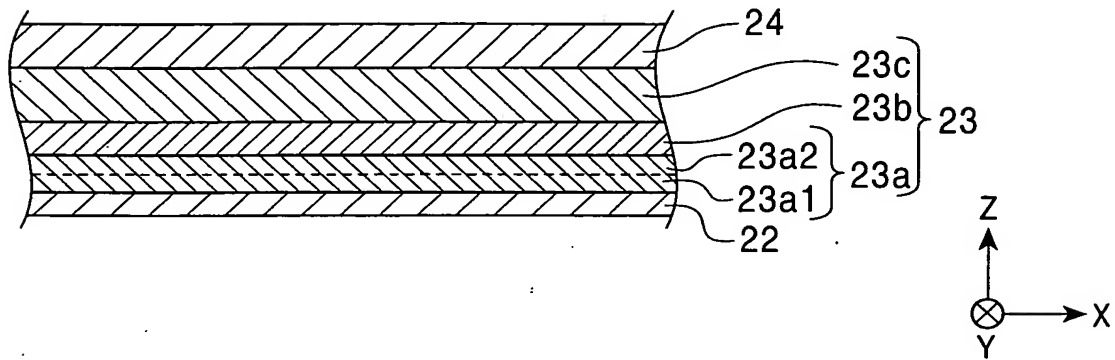


FIG. 7

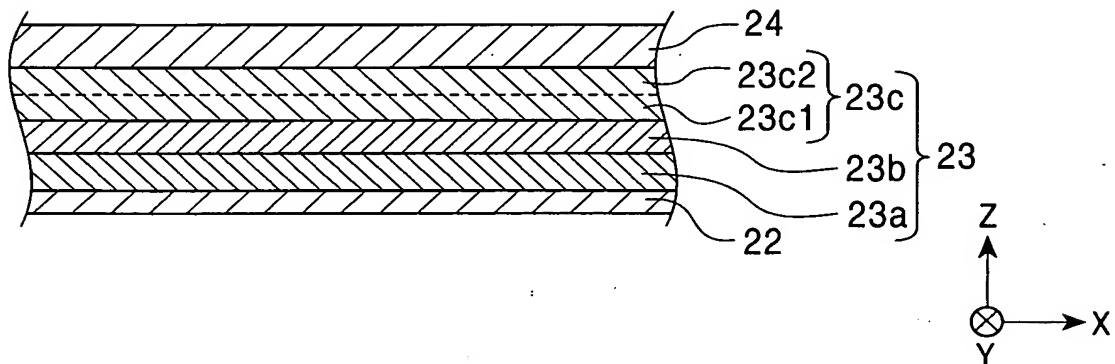
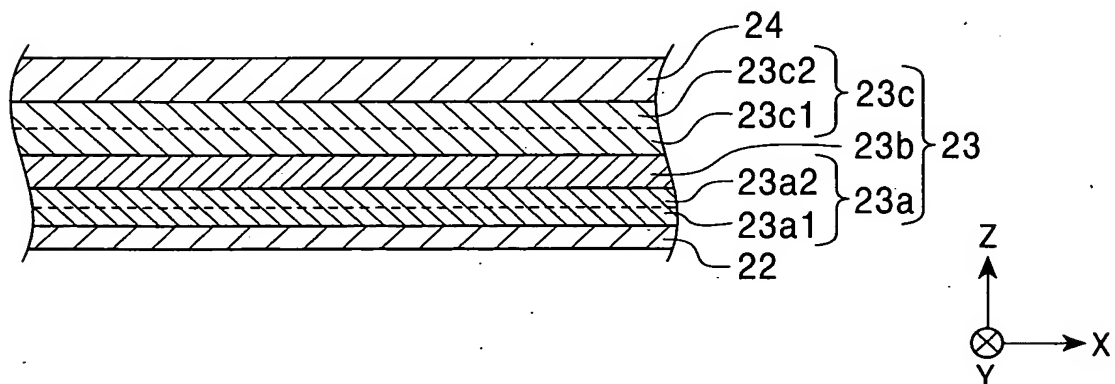
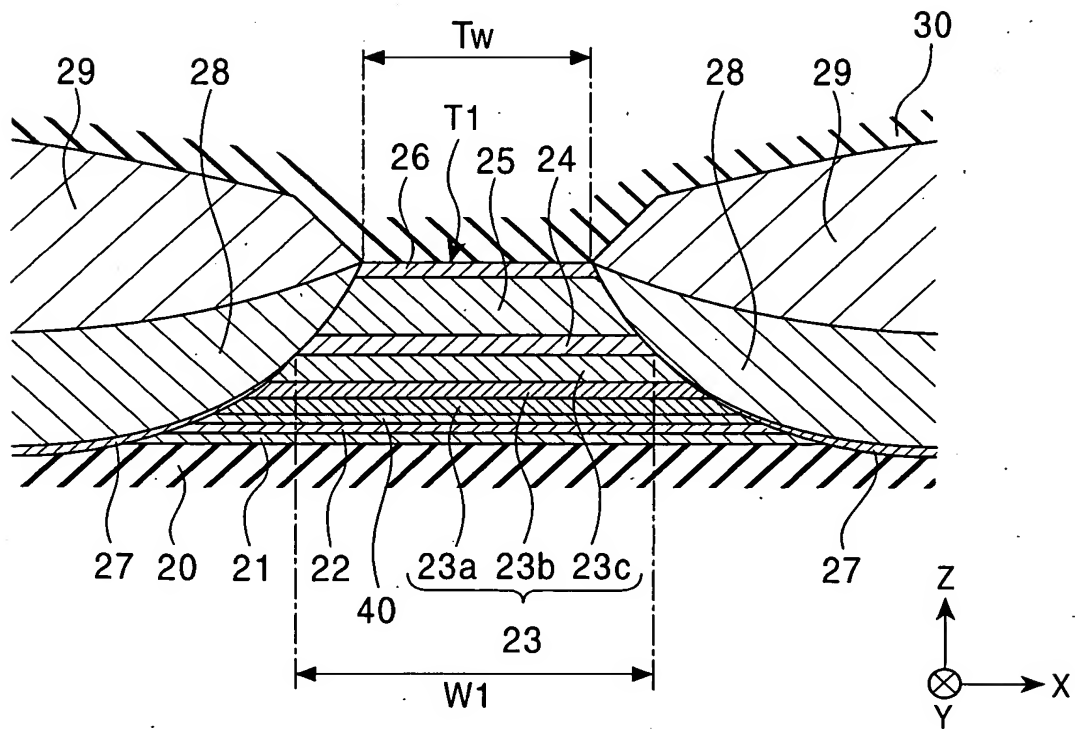


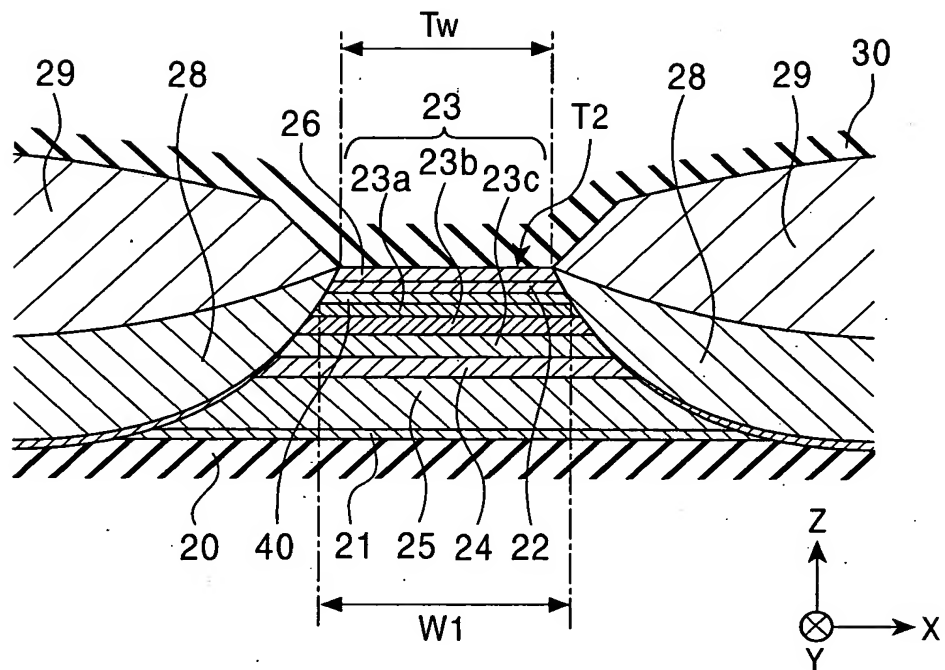
FIG. 8





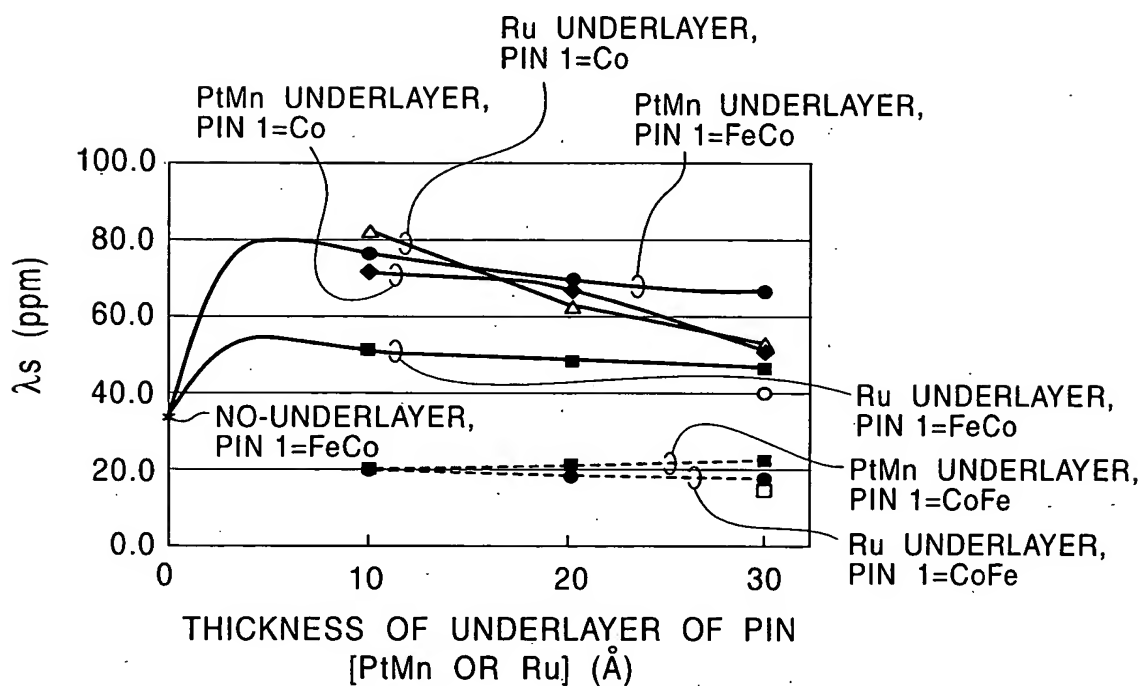
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FIG. 10



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FIG. 11



- ◆ PtMn UNDERLAYER, PIN 1=Co (22), PIN 2=Co (40)
- △ Ru UNDERLAYER, PIN 1=Co (22), PIN 2=Co (40)
- PtMn UNDERLAYER, PIN 1= CoFe (24), PIN 2= CoFe (40)
- PtMn UNDERLAYER, PIN 1= CoFe (18), PIN 2= CoFe (40)
- Ru UNDERLAYER, PIN 1= CoFe (24), PIN 2= CoFe (40)
- * NO-UNDERLAYER PIN 1=FeCo(16), PIN 2=Co(40)
- PtMn UNDERLAYER, PIN 1= FeCo (16), PIN 2=Co (40)
- Ru UNDERLAYER, PIN 1= FeCo (16), PIN 2=Co (40)
- Ru UNDERLAYER, PIN 1= FeCo (12), PIN 2=Co (40)

(NUMERALS IN PARENTHESES REPRESENT FILM THICKNESS Å)

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FIG. 12
PRIOR ART

